

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO BGI-141CP	SERIAL NO. 09/667569
LIST OF PUBLICATIONS CITED BY APPLICANT (use several sheets if necessary)		APPLICANT Yocum, R. Rogers et al.		FILING DATE September 21, 2000	GROUP 1652
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U.S. PATENT DOCUMENTS

TECH CENTER 1600/2900

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DJS	A1 5,889,276	02/92	Yamashita et al.	424	686	
DJS	A2 5,294,542	03/94	Sloma et al.	435	69.1	
DJS	A3 5,518,906	05/96	Hikichi et al.	435	116	
DJS	A4 5,529,908	06/96	Palva et al.	435	69.1	
DJS	A5 5,534,420	07/96	Debono et al.	435	71.3	
DJS	A6 5,599,689	02/97	Haynie et al.	435	42	
DJS	A7 5,721,137	02/98	Frascotti et al.	435	320.1	
DJS	A8 5,756,536	05/98	Chen et al.	514	449	
DJS	A9 5,856,165	01/99	Van Solingen	435	209	
DJS	A10 5,912,164	06/99	Warneck et al.	435	280	
DJS	A11 5,925,538	07/99	Perkins et al.	435	66	
DJS	A12 5,932,457	08/99	Moriya et al.	435	146	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DJS	A13 EP 224294 B1	06/87	EPO			
DJS	A14 EP 493060 A2, A3	07/92	EPO			
DJS	A15 EP 590857 A2	04/94	EPO			
DJS	A16 WO 97/10340 A1	03/97	PCT			
DJS	A17 WO 98/18954 A1	05/98	PCT			
DJS	A18 EP 1001027 A2, A3	05/00	EPO			x
DJS	A19 EP 1001189 A2	06/00	EPO			x
DJS	A20 EP 1001192 A2	06/00	EPO			x
DJS	A21 EP 1001193 A2	06/00	EPO			x
DJS	A22 WO 01/83799 A1	11/01	PCT			

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

DJS	A23	Baigori, M. et al. "Isolation and Characterization of <i>Bacillus subtilis</i> Mutants Blocked in the Synthesis of Pantothenic Acid" <i>J. Bacteriol.</i> 173(13):4240-4242 (Jul. 1991)
DJS	A24	Downs, DM "Evidence for a new, oxygen-related biosynthetic pathway for the pyrimidine moiety of thiamine in <i>Salmonella typhimurium</i> " <i>J. Bacteriol.</i> 174(5):1515-1521 (Mar. 1992)
DJS	A25	Downs, DM et al. "appA, a New Genetic Locus Involved in Thiamine Biosynthesis in <i>Salmonella typhimurium</i> " <i>J. Bacteriol.</i> 176(16):4858-4864 (Aug. 1994)
DJS	A26	Dusch, N. et al. "Cloning and characterization of the <i>C. glutamicum</i> ATCC13032 <i>panD</i> gene coding for L-aspartate-?-decarboxylase" no. P-L 06 (Mar. 1999)

Examiner

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Date Considered

10/05/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICANT FACSIMILE OF FORM PTO-144B REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO BGI-141CP	SERIAL NO. 09/667569
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Yocum, R. Rogers et al.	FILING DATE September 21, 2000	GROUP 1652
<i>O I P E 10 JUL 31 2003</i>		<i>RECEIVED AUG 01 2003 TECH CENTER 1600/2900</i>		
OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)				
<i>DJS</i>	C1	GenBank AAA56681 ApbA protein [Salmonella typhimurium] 07 DEC 1994		
<i>DJS</i>	C2	GenBank Z99111 AL009126 Bacillus subtilis complete genome (section 8 of 21): from 1394791 26 NOV 1997		
<i>DJS</i>	C3	GenBank P52996 3-Methyl-2-Oxobutanoate Hydroxymethyltransferase (Ketopantoate Hydroxymethyltransferase) 01 OCT 1996		
<i>DJS</i>	C4	GenBank Z98682 Bacillus subtilis genomic DNA 23.9kB fragment 19 AUG 1997		
<i>DJS</i>	C5	GenBank O34661 Probable 2-Dehydropantoate 2-Reductase (Ketopantoate Reductase) (Kpa Reductase) 01 NOV 1998		
<i>DJS</i>	C6	GenBank CAB13317 similar to thiamin biosynthesis [Bacillus subtilis] 26 NOV 1997		
<i>DJS</i>	C7	GenBank CAB11364 YlbQ protein [Bacillus subtilis] 19 AUG 1997		
<i>DJS</i>	C8	GenBank P37402 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15 DEC 1998		
<i>DJS</i>	C9	GenBank P52999 Aspartate 1-decarboxylase precursor (Aspartate alpha-decarboxylase) Aspartate 1-decarboxylase precursor (Aspartate alpha-decarboxylase) 15 DEC 1998		
<i>DJS</i>	C10	GenBank P77728 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15 DEC 1998		
<i>DJS</i>	C11	GenBank U09529 Salmonella typhimurium LT2 ApbA protein (apbA) gene, complete cds 07 DEC 1994		
<i>DJS</i>	C12	GenBank Z98682 Bacillus subtilis genomic DNA 23.9kB fragment 19 AUG 1997		
<i>DJS</i>	C13	GenBank P37253 Ketol-acid reductoisomerase (Acetohydroxy-acid isomeroreductase) (Alpha-keto-beta-hydroxylacil reductoisomerase) 15 DEC 1998		
<i>DJS</i>	C14	GenBank P37252 Acetylactate synthase small subunit (AHAS) (Acetohydroxy-acid synthase small subunit) (ALS) 15 DEC 1998		
<i>DJS</i>	C15	GenBank P37251 Acetylactate synthase large subunit (AHAS) (Acetohydroxy-acid synthase large subunit) (ALS) (Vegetative protein 105) (VEG105) 15 JUL 1998		
<i>DJS</i>	C16	GenBank P52998 Pantoate--beta-alanine ligase (Pantothenate synthetase) (Pantoate activating enzyme) 15 DEC 1998		
<i>DJS</i>	C17	GenBank P51785 Dihydroxy-acid dehydratase (DAD) (Vegetative protein 110) (VEG110) 15 DEC 1998		
<i>DJS</i>	C18	GenBank F69875 pyrimidine-thiamin biosynthesis homolog ylbQ - Bacillus subtilis. 05-NOV-1999		
<i>DJS</i>	C19	EMBL L47709 Bacillus subtilis (clone YAC15-6B) ypiABF genes, qcrABC genes, ypjABCDEFGHI DE genes, birA gene, panBCD genes, dinG gene, ypmB gene, aspB gene, asnS gene, DE dnaD gene, nth gene and ypoC gene, complete cds. 23 JAN 1996		
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<i>OIP JCA</i> JUL 31 2003		AUG 01 2003		

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DJS	B1	Cusch, N. et al. "Expression of the <i>Corynebacterium glutamicum panD</i> Gene Encoding L-Aspartate- α -Decarboxylase Leads to Pantothenate Overproduction in <i>Escherichia coli</i> " <i>Applied and Environmental Microbiology</i> 65(4):1530-1539 (Apr. 1999)
DJS	B2	Elischewski, F. et al. "Pantothenate production in <i>Escherichia coli</i> K12 by enhanced expression of the <i>panE</i> gene encoding ketopantoate reductase" <i>J. Biotechnol.</i> 75(2-3):135-46 (Oct. 8, 1999)
DJS	B3	Elischewski, F. et al. "Identification and analysis of the <i>panE</i> gene involved in pantothenate biosynthesis in <i>Escherichia coli</i> K12" Abstract no. P-L 29 (Mar. 1999)
DJS	B4	Frodyma, ME et al. "ApbA, the Ketopantoate Reductase Enzyme of <i>Salmonella typhimurium</i> is Required for the Synthesis of Thiamine via the Alternative Pyrimidine Biosynthetic Pathway" <i>J. Biol. Chem.</i> 273(10):5572-5576 (Mar. 6, 1998)
DJS	B5	Frodyma, ME et al. "The <i>panE</i> Gene, Encoding Ketopantoate Reductase, Maps at 10 Minutes and Is Allelic to <i>appA</i> in <i>Salmonella typhumurium</i> " <i>J. Bacteriol.</i> 180(17):4757-4759 (Sep. 1998);
DJS	B6	Hoch, JA et al. "Panspermia, spores and the <i>Bacillus subtilis</i> genome." <i>Nature</i> 390(6657):237-8 (Nov. 20, 1997)
DJS	B7	Jackowski, S. "Biosynthesis of Pantothenic Acid and Coenzyme A" in <i>Escherichia coli and Salmonella typhimurium: Cellular and molecular biology</i> , Second edition. (Neidhardt et al. Eds.) Washington, D.C.: American Society of Microbiology, 687-694 (1995);
DJS	B8	Kunst, F. et al. "The complete genome sequence of the Gram-positive bacterium" <i>Bacillus subtilis</i> " <i>Nature</i> 390(6657):249-56 (Nov. 20, 1997)
DJS	B9	Merkel, WK et al. Characterization and sequence of the <i>Escherichia coli panBCD</i> gene cluster" <i>FEMS Microbiol Lett.</i> 143(2-3):247-52 (Oct. 1, 1996)
DJS	B10	Ramjee, MK et al. "Escherichia coli L-aspartate- α -decarboxylase: preprotein processing and observation of reaction intermediates by electrospray mass spectrometry" <i>Biochem. J.</i> 323 (Pt 3):661-9 (May 1, 1997)
DJS	B11	Sahm, H. et al. "D-Pantothenate Synthesis in <i>Corynebacterium glutamicum</i> and Use of <i>panBC</i> and Genes Encoding L-Valine Synthesis for D-Pantothenate Overproduction" <i>Applied and Environmental Microbiology</i> 65(5):1973-1979 (May 1999)
DJS	B12	Shimizu, S. et al. "Ketopantoic Acid Reductase of <i>Pseudomonas maltophilia</i> 845" <i>J. Biol. Chem.</i> 263(24):12077-12084 (Aug. 25, 1988)
DJS	B13	Sorokin, A. et al. "Sequence analysis of the <i>Bacillus subtilis</i> chromosome region between the <i>serA</i> and <i>kdg</i> loci cloned in a yeast artificial chromosome" <i>Microbiology</i> 142:2005-2016 (1996)
DJS	B14	Vandamme, EJ "Production of vitamins, coenzymes and related biochemicals by biotechnological processes" <i>J. Chem. Tech. Biotechnol.</i> 53(4):313-327 (1992)
DJS	B15	Vandamme, EJ "The search for novel microbial fine chemicals, agrochemicals and biopharmaceuticals" <i>J. Biotechnol.</i> 37(2):89-108 (1994)
DJS	B16	GenBank U09529 <i>Salmonella typhimurium</i> LT2 ApbA protein (<i>appA</i>) gene, complete cds. 07-DEC-1994
DJS	B17	GenBank P37402 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15-DEC-1998

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